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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/083,890	02/27/2002	Narayanan Venkitaraman	CM05034H	2114		
22917	7590 05/19/20	6	EXAMINER			
MOTOROI	LA, INC. ALGONQUIN ROAD	HARPER, KEVIN C				
IL01/3RD	ALGONQUIN KOAL		ART UNIT	PAPER NUMBER		
SCHAUMBI	JRG, IL 60196	2616				
			DATE MAILED: 05/19/2006	DATE MAILED: 05/19/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.		Applicant(s)		A		
Office Action Summary		10/083,890		VENKITARAMAN	ET AL.			
		Examiner		Art Unit				
		Kevin C. Harper		2616				
Period fo	The MAILING DATE of this communication apports.  Or Reply	pears on the cover	sheet with the c	orrespondence ad	Idress			
THE - Exte after - If the - If NO - Failt Any	MAILING DATE OF THIS COMMUNICATION.  Insions of time may be available under the provisions of 37 CFR 1.1  SIX (6) MONTHS from the mailing date of this communication.  In period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, howe ly within the statutory min will apply and will expire e, cause the application to	ever, may a reply be tim imum of thirty (30) days SIX (6) MONTHS from b become ABANDONED	nely filed s will be considered time the mailing date of this c O (35 U.S.C. § 133).	ly. communication			
Status								
1)🛛	Responsive to communication(s) filed on 23 F	ebruary 2006.						
2a)□	<u> </u>							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)⊠ 5)□ 6)⊠ 7)□ 8)□	Claim(s) 16,19,20 and 24-40 is/are pending in 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed.  Claim(s) 16,19,20 and 24-40 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or	wn from consider						
Applicat	ion Papers	•						
9)[	The specification is objected to by the Examine	er.						
10)	The drawing(s) filed on is/are: a) acc	cepted or b) 🗌 obj	ected to by the E	Examiner.				
	Applicant may not request that any objection to the	drawing(s) be held	in abeyance. See	e 37 CFR 1.85(a).				
11)□	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex				• •	).		
Priority (	under 35 U.S.C. § 119							
12)□ a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea See the attached detailed Office action for a list	ts have been rece ts have been rece ority documents ha u (PCT Rule 17.2	ived. ived in Application ive been receiver (a)).	on No ed in this National	Stage			
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	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)		Interview Summary ( Paper No(s)/Mail Da					
3) 🔲 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date	5) 🔲		atent Application (PT0	O-152)			

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## Response to Arguments

Applicant's arguments filed February 23, 2006 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Lim in view of Malki and Sorensen.

### Claim Objections

1. Claims 38-40 are objected to because text is missing after the fifth line of the claim "home agent of the mobile node; and...". Appropriate correction is required.

#### Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 16, 19, 20 and 24-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lim (US 6,697,355) in view of Malki et al. (US 2001/0046223) and Sorensen (US 2002/0061009).

Regarding claims 16, 19 and 24-29, Lim discloses in a communication system supporting mobile IP (abstract, lines 1-2), where a mobile node (fig. 3, MHT) connects to a network infrastructure (item 400) via a gateway router (GWR1 or GWR2), a method comprising the mobile node attaching to a mobile gateway router (fig. 3, MRT21) associated with a mobile network which is a home network of the mobile node (col. 5, lines 44-47). However, Lim does not disclose the mobile node determining that it is attached to the mobile gateway router, obtaining a care-of-address, sending the care-of-address to the home agent of the mobile node,

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and maintaining a binding update list of correspondent nodes that the mobile node has been communicating with. Malki discloses a mobile node determining that it is attached to a mobile gateway router (figs. 2-3; para 32, lines 1-5), determining a care-of-address that is the home address of the mobile gateway node (para. 32, lines 6-10), sending the care-of-address to the home agent of the mobile node (para. 32, lines 15-19), and maintaining an inherent binding update list of correspondent nodes that the mobile node has been communicating with (para. 32, lines 18-19). Further regarding claim 19, the mobile node of Malki is a mobile router (note: the mobile node performs Internet routing functions by forwarding IP packets to correspondent nodes -- para. 9, lines 8-10). Regarding claim 28, the binding update is sent in response to a tunneled packet from a correspondent node (fig. 10, steps 1010, 1020, 1040). Regarding claim 29, the mobile node identifies a packet from a correspondent node that did not traverse the home agent (fig. 10, step 1030; para. 50, last four lines). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to self-register the mobility of a mobile node with a home agent in the invention of Lim in order to enhance mobility registration by controlling network messages by the mobile node (Malki, para. 54, last nine lines).

3. Further, Lim in view of Malki does not disclose a mobile gateway router having mobility. Sorensen discloses an ad hoc mobile gateway router having mobility (fig. 2; para 24, lines 4-7). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have mobility for a mobile gateway router in the invention of Lim in view of Malki in order to movable network interfaces or gateways such as within a car or bus as is known in the art

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- 4. Regarding claim 20, in Lim the mobile node (fig. 3, MHT) is detached from a mobile network (fig. 3, item 302; col. 5, lines 47-50).
- 5. Regarding claims 30-40, Lim discloses a mobile router having mobile nodes (fig. 3). However, Lim does not disclose detaching from the mobile gateway router, attaching to a second mobile gateway router and sending binding updates. Malki discloses choosing a new mobility point and sending binding updates (fig. 7, steps 710, 720 and 760) to correspondent nodes of a binding update list (para. 32, lines 18-19). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to self-register the mobility of a mobile node with a home agent in the invention of Lim in order to enhance mobility registration by controlling network messages by the mobile node (Malki, para. 54, last nine lines) and provide for free movement within a communications system (para. 4, lines 1-5).

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Harper whose telephone number is 571-272-3166. The examiner can normally be reached weekdays from 11:00 AM to 7:00 PM ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doris To, can be reached at 571-272-7629. The centralized fax number for the Patent Office is 571-273-8300. For non-official communications, the examiner's personal fax number is 571-273-3166 and the examiner's e-mail address is kevin.harper@uspto.gov. Previous art units 2661-2668 have merged to form a new art unit 2616. A similar restructuring has taken place for all other art units in TC 2600.

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9197 (toll-free).

Information regarding the status of an application may be obtained from the Patent

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Kevin C. Harper

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May 14, 2006